

CATALOG #: _____

Type: _____

PROJECT: _____



FEATURES

- Gently curved aperture provides soft, even illumination
- Slim 3-3/4" depth for shallow plenum applications
- Two design choices create aesthetic detail
- Low UGR meets LEED and WELL requirements
- Easy to install without the use of tools
- Seamless design prevents light leak
- PMMA lens reduces the risk of yellowing from UV exposure
- Optional surface mount kit preserves continuity
- Wireless in-fixture control solutions available
- Made Right Here® in the USA

SPECIFICATIONS

- HOUSING** – Die-formed steel with extruded aluminum side rails.
- OPTICS** – PMMA light guide panel, edge-lit (2x2 & 2x4), backlit (1x4)
- FINISH** – Non-glare matte white polyester powder coat bonded to phosphate-free, multi-stage pretreated metal. All parts painted after fabrication to facilitate installation, increase efficiency, and inhibit corrosion.
- ELECTRICAL** – High-quality mid-power LED boards. L80 >50,000 hours.
- MOUNTING** – NEMA Type "G" 15/16" or 1" grid standard. For NEMA Type "NFG" and "SG" 9/16" grid installations, specify EQCLIPS option. Surface mount and drywall kit accessories available, shipped separately, see options.
- LISTINGS** –
 - cCSAus certified as luminaire suitable for dry or damp locations.
 - IC-rated for direct contact with insulation.
 - City of Chicago Environmental Air approved when specified with CP option.
 - Complies with the Buy American Act and other federal regulations. Request certification at hew.com/baa.
- WARRANTY** – 5-year limited fixture warranty, see hew.com/warranty.

ORDERING EXAMPLE: AP - 22 - L40/835 - OPTIONS - CONTROL/DIM - UNV

ORDERING INFO

SERIES	WIDTH	LENGTH	LUMENS ^[1]	CRI	CCT	OPTIONS ^[2]
AP Arched panel	1 1' ^[3]	2 2'	1x4	8 80	30 3000K	EM/10W 10-watt emergency battery
APC Arched panel with center fin	2 2'	4 4'	L30 3,000lm		35 3500K	DFK-1248W Drywall kit, 12" x 48", white ^[4]
			L40 4,000lm		40 4000K	DFK-2424W Drywall kit, 24" x 24", white ^[5]
			L55 5,500lm		50 5000K	DFK-2448W Drywall kit, 24" x 48", white ^[6]
			2x2			AP-22-SMK-W Surface mount kit, 2'x2', white
			L30 3,000lm			AP-24-SMK-W Surface mount kit, 2'x4', white
			L40 4,000lm			EQCLIPS Earthquake clips ^[7]
			L50 5,000lm			CP Chicago Plenum (CCEA)
			2x4			
			L30 3,000lm			
			L50 5,000lm			
			L70 7,000lm			

CONTROL

See page 6 for ADDITIONAL CONTROL OPTIONS.

–	None
AVI-LVFA	Avi-on wireless fixture control ^[8]
AVI-LVFA-CS2-PIR	Avi-on wireless fixture control with PIR motion and daylight sensor, bottom mount ^[9]
AWNRR	Lutron Athena wireless node integral fixture control, RF only ^[10]
AWNS	Lutron Athena wireless node integral fixture control, RF with daylight and occupancy sensing ^[11]

DRIVER

See page 6 for ADDITIONAL DRIVER OPTIONS.

DIM	Driver with external dimming wires
DRV	Driver without external dimming wires
DA	Driver with 12V auxiliary power, without external dimming wires ^[12]
DSR	Sensor-ready driver without external dimming wires (D4i DALI-2) ^[13]

VOLTAGE

120	120V
277	277V
UNV	120-277V
347	347V ^[14]

NOTES

- Lumens based on AP, 3500 CCT. Actual performance may vary +/-5%, see page 2 for FIXTURE PERFORMANCE DATA.
- See page 3 for FLEXIBLE WHIP OPTIONS. See page 4 for SURFACE MOUNT KIT DETAILS.
- 4' length only.
- See page 4 for DRYWALL KIT (DFK) OPTIONS. DFK and AP housing colors are not identical.
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- 4 per fixture. Optional for 1" grid installations. Required for 9/16" grid mounting.
- DA Driver only.
- DA Driver only.
- DA and DSR Drivers only.
- DA and DSR Drivers only.
- Avi-on and Lutron Athena Controls only.
- Lutron Vive and Athena Controls only.
- Not available with EM batteries, DA, or DSR Drivers.



FIXTURE PERFORMANCE DATA

	LED PACKAGE	DELIVERED LUMENS	WATTAGE	EFFICACY (lm/W)	UNIFIED GLARE RATING (UGR) ^[1]	
					CROSSWISE	ENDWISE
1x4	L30	3006	22.8	132	22.8	22.2
	L40	3904	30.3	129	22.8	22.2
	L55	5582	44.1	127	22.5	21.9
2x2	L30	3030	25.4	119	20.2	20.8
	L40	4026	36.1	112	21.1	21.7
	L50	5065	45.7	111	21.9	22.5
2x4	L30	3081	26.4	117	18.0	18.1
	L50	5060	45.3	112	19.7	19.8
	L70	7035	63.8	110	20.9	21.0

MULTIPLIER TABLES

COLOR TEMPERATURE	
CCT	CONVERSION FACTOR
3000K	0.99
3500K	1.00
4000K	1.03
5000K	1.06

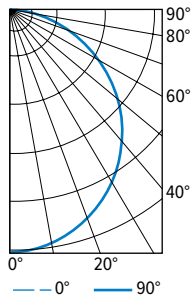
SERIES	CONVERSION FACTOR
AP	1.00
APC	0.88

- Photometrics tested in accordance with IESNA LM-79. Results based on AP, 80 CRI/3500K CCT, average wattage for 120V through 277V input, and 25°C ambient temperature. Actual performance may vary +/-5%.
- To calculate lumen output in emergency mode, multiply the battery wattage by the efficacy.
- Use multiplier tables to calculate additional options.

¹ UGR reference values based on 4H x 8H room size with 70%, 50%, and 20% reflectance. Actual values vary based on luminaire options and application specifications.

PHOTOMETRY

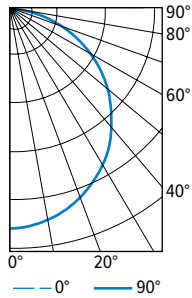
AP-22-L30/835 Total Luminaire Output: 3030 lumens; 25.4 Watts | Efficacy: 119 lm/W | 80 CRI; 3500K CCT



VERTICAL ANGLE	HORIZONTAL ANGLE			ZONAL LUMENS
	0°	45°	90°	
0	1059	1059	1059	
5	1053	1054	1054	100
15	1009	1013	1019	286
25	932	937	949	433
35	823	831	848	521
45	690	700	721	541
55	535	546	571	491
65	368	380	402	378
75	199	206	228	221
85	41	45	55	59
90	0	0	0	

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 40	1340	44
	0 - 60	2372	78
	0 - 90	3030	100
	0 - 180	3030	100

APC-22-L30/840 Total Luminaire Output: 2902 lumens; 25.4 Watts | Efficacy: 114 lm/W | 80 CRI; 4000K CCT

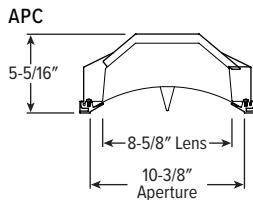
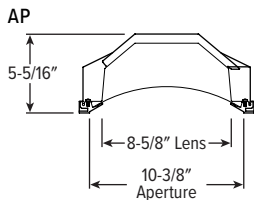


VERTICAL ANGLE	HORIZONTAL ANGLE			ZONAL LUMENS
	0°	45°	90°	
0	1042	1042	1042	
5	1034	1037	1038	98
15	991	996	1000	281
25	915	917	920	423
35	814	810	815	508
45	678	670	677	520
55	533	522	531	470
65	369	357	363	356
75	198	185	188	199
85	40	36	38	46
90	0	0	0	

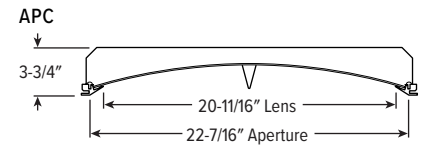
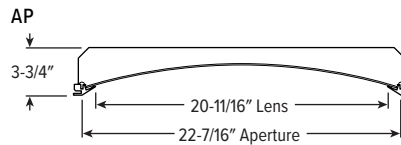
LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 40	1310	45
	0 - 60	2300	79
	0 - 90	2902	100
	0 - 180	2902	100

CROSS SECTIONS

1x4

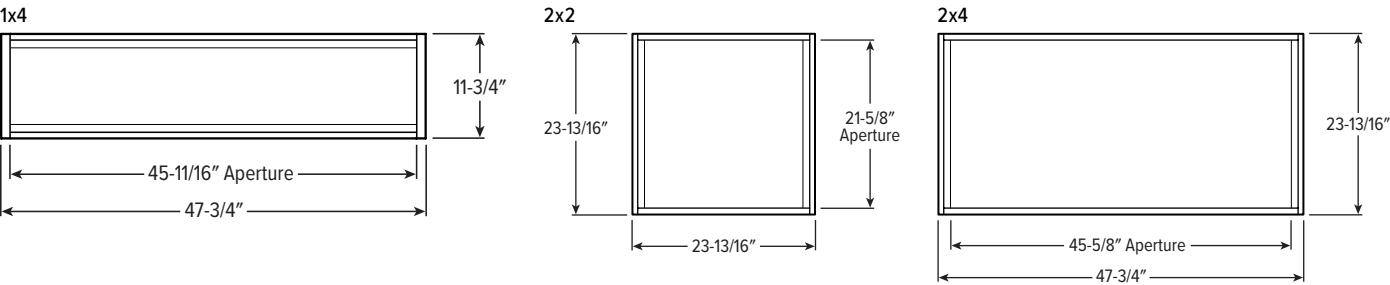


2x2 | 2x4

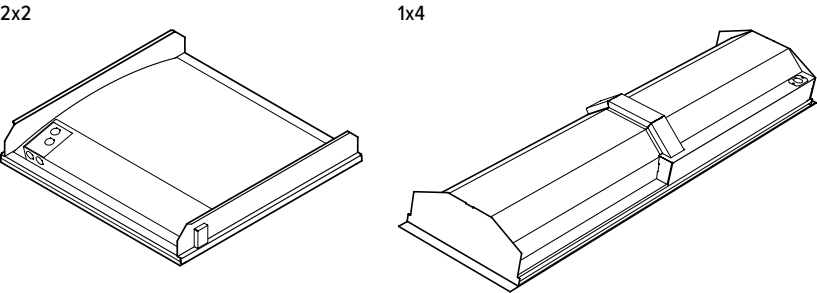


FIXTURE DETAILS

BOTTOM VIEW



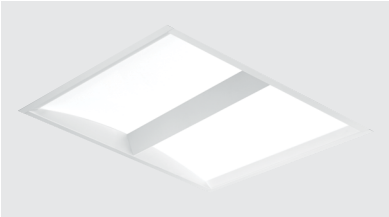
ISOMETRIC BACK VIEW



AP SERIES



APC SERIES



FLEXIBLE WHIP OPTIONS

All Williams recessed troffers are available with a flexible metallic wiring harness, factory-attached and hard-wired to the luminaire. See ordering information table.

Straight connectors are a snap-in type. Consult factory for wiring harness utilizing connectors secured by lock nuts, optional flex size, lengths, and other wire sizes or circuitry. Three-wire flex utilizes black, white, and green wire. Four-wire flex utilizes black, white, red, and green wire. Adding an emergency option requires an additional wire.

Williams fixtures are UL listed to provide factory-installation of several manufacturers' modular wiring devices. Consult factory for availability and ordering information.

DESIGNATION	DESCRIPTION	DRIVER
F338	6' of 3/8" flex, (3) No. 18 AWG wires with (2) straight connectors	DRV, LTE LINE
F348	6' of 3/8" flex, (4) No. 18 AWG wires with (2) straight connectors	SD40
F334	6' of 3/8" flex, (3) No. 14 AWG wires with (2) straight connectors	DRV, LTE LINE
F344	6' of 3/8" flex, (4) No. 14 AWG wires with (2) straight connectors	SD40
F358	6' of 3/8" flex, (5) #18 AWG wires with (2) straight connectors	DIM, DALI

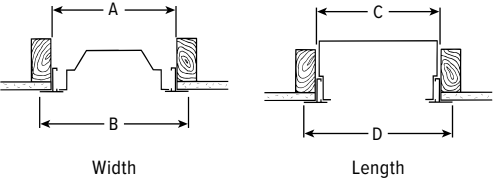


DRYWALL KIT (DFK) OPTIONS

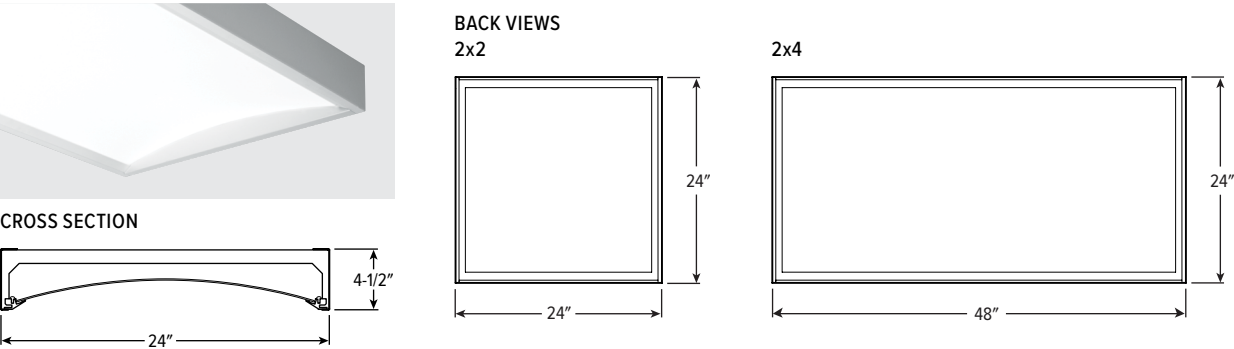
ORDERING INFO				INSTALLATION DIMENSIONS				
EXAMPLE: DFK - 24 48 W				NOMINAL SIZE	ROUGH-IN		FINISH TRIM SIZE	
SERIES	WIDTH	LENGTH	FINISH		WIDTH (A)	LENGTH (C)	WIDTH (B)	LENGTH (D)
DFK Drywall kit	12 1'	48 4'	W White	1' x 4'	12-3/8"	48-3/8"	13-5/16"	49-5/16"
	24 2'	24 2'	AMW Anti-microbial white	2' x 2'	24-3/8"	24-3/8"	25-5/16"	25-5/16"
	24 2'	48 4'		2' x 4'	24-3/8"	48-3/8"	25-5/16"	49-5/16"

TYPICAL INSTALLATION

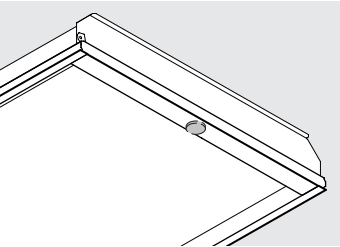
Refer to table for dimensions.



SURFACE MOUNT KIT DETAILS



SENSOR & NODE PLACEMENT DETAILS



AVI-ON BLUETOOTH WIRELESS CONTROL DETAILS

FEATURES

Simple

- Gateway-free distributed control
- Factory pre-commissioning
- Contractor friendly installation
- Occupancy/vacancy/daylight sensing

Scalable

- Virtually unlimited network size
- Spans small offices to large warehouses
- Flexible control strategies

Secure

- Optional cloud connectivity
- UL IoT platinum security rating
- DLC 5.0 compliant

COMMISSIONING & INSTALLATION TOOLS

Avi-on mobile apps provide intuitive, quick installation and commissioning. Pro tools are available to qualified installers. Live commissioning training and on-site or remote support by Avi-on must be ordered separately through Avi-on.



Commissioning
Mobile App

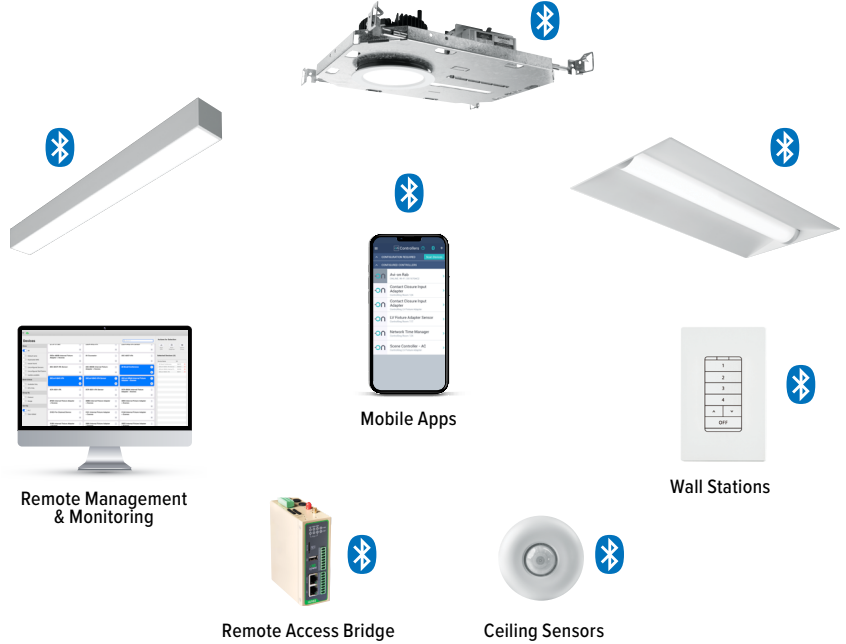


Zone Scanner
Web App



Commissioning
Pro App

SYSTEM COMPONENTS



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ACCESSORIES

WALL STATIONS	
AVI-2401AC	Scene controller - numbered 1-4, 120-277VAC
AVI-2402BAT	Scene controller - numbered 1-4, battery powered
AVI-2401AC-2	Dimmer with presets - percentages, 120-277VAC
AVI-2402BAT-2	Dimmer with presets - percentages, battery powered
AVI-2401AC-3	On/off/dimming, 120-277VAC
AVI-2402BAT-3	On/off/dimming, battery powered

NETWORK	
AVI-RAB-LTE	Remote access bridge
AVI-KIT-NTM	Network time manager with battery backup
CEILING MOUNT SENSORS	
AVI-KIT-SEN-DUCM	PIR motion and ultrasonic sensor kit
AVI-KIT-SEN-ICM	PIR motion and photocell sensor kit

For load controllers and additional accessory info, see hew.com/avi-on

AVI-LVFA-CS2-PIR Avi-on wireless fixture control with PIR motion and daylight sensor. DA Driver only.

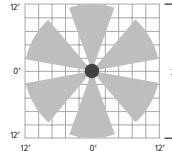
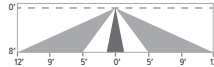
SPECIFICATIONS	
TYPE	PIR Motion + Daylight
MOUNTING HEIGHT	8' – 10'
DETECTION ANGLE	360°
TEMPERATURE RANGE	-30° to 50°C
RELATIVE HUMIDITY	10 to 80% non-condensing
IP RATING	IP20
MANUFACTURER	Avi-On



SENSOR COVERAGE PATTERNS

Side View

8' height: ø24' coverage



SENSOR DETAIL



Dimensions: 13/16" x 2-1/4"



ADDITIONAL CONTROL OPTIONS

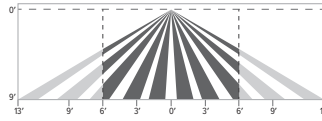
AWNS Lutron Athena wireless node integral fixture control, RF with daylight and occupancy sensing. DA and DSR Drivers only.

SPECIFICATIONS	
TYPE	Radio Frequency
MOUNTING HEIGHT	8' – 12'
DETECTION ANGLE	360°
TEMPERATURE RANGE	0° to 55°C
RELATIVE HUMIDITY	0 to 90%, non-condensing
COMMISSIONING	Clear Connect gateway – Type X with app (iOS or Android)
MANUFACTURER	Lutron



SENSOR COVERAGE PATTERNS

9' height: ø12' coverage



Motion Sensor Coverage

CEILING HEIGHT	COVERAGE AREA (SQ FT)
8'	114
9'	144
10'	178
12'	256

SENSOR DETAIL



Dimensions: ø1-1/8"

ATHENA CONTROL OPTIONS

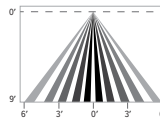
CATALOG NUMBER	DESCRIPTION
AWNDR	Lutron Athena wireless node integral fixture control, RF only, for use with D4i DALI-2 or driver with 12V auxiliary power
AWNS	Lutron Athena wireless node integral fixture control, RF with daylight and occupancy sensing, for use with D4i DALI-2 or driver with 12V auxiliary power
AWNDR-BL	Lutron Athena wireless node integral fixture control, RF only, for use with D4i DALI-2 or driver with 12V auxiliary power, black finish
AWNS-BL	Lutron Athena wireless node integral fixture control, RF with daylight and occupancy sensing, for use with D4i DALI-2 or driver with 12V auxiliary power, black finish

VDO Lutron Vive integral fixture control, RF with daylight and occupancy sensor (DFCSJ-OEM-OCC). DSR or LDE Drivers only. LDE drivers require driver interface

SPECIFICATIONS	
TYPE	PIR Motion + Daylight
MOUNTING HEIGHT	8' – 12'
DETECTION ANGLE	360°
TEMPERATURE RANGE	0° to 55°C
RELATIVE HUMIDITY	0 to 90%, non-condensing
COMMISSIONING	App (iOS or Android)
MANUFACTURER	Lutron

SENSOR COVERAGE PATTERNS

9' height: ø12' coverage



Motion Sensor Coverage

CEILING HEIGHT	COVERAGE AREA (SQ FT)
8'	114
9'	144
10'	178
12'	256

SENSOR DETAIL



Dimensions: 2-11/16" x 1"

VIVE CONTROL OPTIONS

CATALOG NUMBER	DESCRIPTION
VRF	Lutron Vive integral fixture control, RF only (DFCSJ-OEM-RF), for use with sensor-ready driver
VDO	Lutron Vive integral fixture control, RF with daylight and occupancy sensor (DFCSJ-OEM-OCC), for use with sensor-ready driver
VRF/DBI	Lutron Vive integral fixture control, RF only (DFCSJ-OEM-RF) and digital link interface, for use with Lutron Hi-lume 1% EcoSystem dimming LED driver
VDO/DBI	Lutron Vive integral fixture control, RF with daylight and occupancy sensor (DFCSJ-OEM-OCC) and digital link interface, for use with Lutron Hi-lume 1% EcoSystem dimming LED driver

ADDITIONAL DRIVER OPTIONS

Note: Lumen restrictions apply, consult product builder at hew.com/product-builder.

CATALOG NUMBER	DESCRIPTION
DRV	Driver prewired for non-dimming applications
DIM	Dimming driver prewired for 0-10V low voltage applications
DIM1	1% dimming driver prewired for 0-10V low voltage applications
DIM LINE	Line voltage dimming driver (TRIAC and ELV compatible, 120V only)
DIM TRC	Line voltage dimming driver (TRIAC compatible, 120V only)
DA	Driver with 12V auxiliary power
DSR	Sensor-ready driver (D4i DALI-2)
SD40	40% step-dimming driver
SD50	50% step-dimming driver
DALI	DALI dimming driver
LDE1	Lutron Hi-lume 1% EcoSystem dimming LED driver

